Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



Reserve A390.1 C42T

UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY



BOOK NUMBER

938640

A390.1 C42T

general Pub # 9

U.S. DEPARTMENT OF AGRICULTURE.

U.S. BUREAU OF CHEMISTRY,



TABLES FOR CALCULATING PERCENTAGE OF ALCOHOL,

BELOW 50 PER CENT BY VOLUME.

[Recalculated from the determinations of Gilpin, Drinkwater, and Squibb.]

		Alcohol.				Alcohol.				Alcohol.	
Specific gravity at 88° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 50° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 60° F.	Per cent by vol- ume,	Per cent by weight.	Grams per 100 cc.
1.00000	0.00	0.00	0.00	0. 99884	0.75	0.60	0. 60	0. 99775	1.50	1.19	1. 19
0.99992	0.05	0.04	0.04	. 99877	0.80	0.64	0. 64	. 99768	1.55	1.23	1. 23
.99984	0.10	0.08	0.08	. 99869	0.85	0.67	0. 67	. 99760	1.60	1.27	1. 27
.99976	0.15	0.12	0.12	. 99861	0.90	0.71	0. 71	. 99753	1.65	1.31	1. 31
.99968	0.20	0.16	0.16	. 99854	0.95	0.75	0. 75	. 99745	1.70	1.35	1. 35
. 99961	0. 25	0.20	0. 20	. 99849	1.00	0.79	0.79	. 99738	1.75	1. 39	1. 39
. 99953	0. 30	0.24	0. 24	. 99842	1.05	0.83	0.83	. 99731	1.80	1. 43	1. 43
. 99945	0. 35	0.28	0. 28	. 99834	1.10	0.87	0.87	. 99723	1.85	1. 47	1. 47
. 99937	0. 40	0.32	0. 32	. 99827	1.15	0.91	0.91	. 99716	1.90	1. 51	1. 51
. 99930	0. 45	0.36	0. 36	. 99819	1.20	0.95	0.95	. 99708	1.95	1. 55	1. 55
. 99923	0.50	0.40	0. 40	. 99812	1. 25	0.99	0.99	.99701	2.00	1.59	1.59
. 99915	0.55	0.44	0. 44	. 99805	1. 30	1.03	1.03	.99694	2.05	1.63	1.62
. 99907	0.60	0.48	0. 48	. 99797	1. 35	1.07	1.07	.99687	2.10	1.67	1.66
. 99900	0.65	0.52	0. 52	. 99790	1. 40	1.11	1.11	.99679	2.15	1.71	1.70
. 99892	0.70	0.56	0. 56	. 99782	1. 45	1.15	1.15	.99672	2.20	1.75	1.74

2

Below 50 per cent by rolume—Continued.

		Alcohol.				Alcohol.				Alcohol.	
Specific gravity at 850 F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 60° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 ec.	Specific gravity at 60° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.
0 . 99665	2. 25	1.79	1.78	0.99215	5.50	4.40	4.37	0.98807	8.75	7.03	6.95
. 99658	2. 30	1.83	1.82	.99208	5.55	4.44	4.40	.98801	8.80	7.07	6.99
. 99651	2. 35	1.87	1.86	.99202	5.60	4.48	4.44	.98795	8.85	7.11	7.03
. 99643	2. 40	1.91	1.90	.99195	5.65	4.52	4.48	.98789	8.90	7.15	7.07
. 99636	2. 45	1.95	1.94	.99189	5.70	4.56	4.52	.98783	8.95	7.19	7.11
. 99629	2, 50	1.99	1.98	.99182	5, 75	4.60	4.56	.98777	9.00	7.23	7.14
. 99622	2, 55	2.03	2.02	.99175	5, 80	4.64	4.60	.98771	9.05	7.27	7.18
. 99615	2, 60	2.07	2.06	.99169	5, 85	4.68	4.64	.98765	9.10	7.31	7.22
. 99607	2, 65	2.11	2.10	.99162	5, 90	4.72	4.68	.98759	9.15	7.35	7.26
. 99600	2, 70	2.15	2.14	.99156	5, 95	4.76	4.72	.98754	9.20	7.39	7.30
. 99593	2.75	2. 19	2.18	.99149	6.00	4.80	4.76	.98748	9.25	7.43	7. 34
. 99586	2.80	2. 23	2.22	.99143	6.05	4.84	4.80	.98742	9.30	7.48	7. 38
. 99579	2.85	2. 27	2.26	.99136	6.10	4.88	4.84	.98736	9.35	7.52	7. 42
. 99571	2.90	2. 31	2.30	.99130	6.15	4.92	4.88	.98730	9.40	7.56	7. 46
. 99564	2.95	2. 35	2.34	.99123	6.20	4.96	4.92	.98724	9.45	7.60	7. 50
. 99557	3.00	2.39	2.38	.99117	6.25	5.	4.96	.98719	9.50	7. 64	7.54
. 99550	3.05	2.43	2.42	.99111	6.30	5.05	5.00	.98713	9.55	7. 68	7.58
. 99543	3.10	2.47	2.46	.99104	6.35	5.09	5.04	.98707	9.60	7. 72	7.62
. 99536	3.15	2.51	2.50	.99098	6.40	5.13	5.08	.98701	9.65	7. 76	7.66
. 99529	3.20	2.55	2.54	.99091	6.45	5.17	5.12	.98695	9.70	7. 80	7.70
.99522	3. 25	2. 59	2.58	.99085	6.50	5. 21	5.16	. 98689	9, 75	7.84	7.74
.99515	3. 30	2. 64	2.62	.99079	6.55	5. 25	5.20	. 98683	9, 80	7.88	7.78
.99508	3. 35	2. 68	2.66	.99072	6.60	5. 29	5.24	. 98678	9, 85	7.92	7.82
.99501	3. 40	2. 72	2.70	.99066	6.65	5. 33	5.28	. 98672	9, 90	7.96	7.85
.99494	3. 45	2. 76	2.74	.99059	6.70	5. 37	5.32	. 98666	9, 95	8.00	7.89
.99487	3.50	2.80	2.78	.99053	6.75	5, 41	5. 36	. 98660	10.00	8.04	7.93
.99480	3.55	2.84	2.82	.99047	6.80	5, 45	5. 40	. 98654	10.05	8.08	7.97
.99473	3.60	2.88	2.86	.99040	6.85	5, 49	5. 44	. 98649	10.10	8.12	8.01
.99466	3.65	2.92	2.90	.99034	6.90	5, 53	5. 48	. 98643	10.15	8.16	8.05
.99459	3.70	2.96	2.94	.99027	6.95	5, 57	5. 52	. 98637	10.20	8.20	8.09
.99452	3.75	3.00	2.98	. 99021	7.00	5. 61	5. 56	.98632	10. 25	8. 24	8.13
.99445	3.80	3.04	3.02	. 99015	7.05	5. 65	5. 60	.98626	10. 30	8. 29	8.17
.99438	3.85	3.08	3.06	. 99009	7.10	5. 69	5. 64	.98620	10. 35	8. 33	8.21
.99431	3.90	3.12	3.10	. 99002	7.15	5. 73	5. 68	.98614	10. 40	8. 37	8.25
.99424	3.95	3.16	3.14	. 98996	7.20	5. 77	5. 72	.98609	10. 45	8. 41	8.29
. 99417	4.00	3. 26	3.18	. 98990	7. 25	5. 81	5.76	. 98603	10, 50	8. 45	8.33
. 99410	4.05	3. 24	3.22	. 98984	7. 30	5. 86	5.80	. 98597	10, 55	8. 49	8.37
. 99403	4.10	3. 28	3.26	. 98978	7. 35	5. 90	5.84	. 98592	10, 60	8. 53	8.41
. 99397	4.15	3. 32	3.30	. 98971	7. 40	5. 94	5.88	. 98586	10, 65	8. 57	8.45
. 99390	4.20	3. 36	3.34	. 98965	7. 45	5. 98	5.92	. 98580	10, 70	8. 61	8.49
. 99383	4. 25	3.40	3.38	. 98959	7.50	6.02	5. 96	.98575	10.75	8. 65	8.53
. 99376	4. 30	3.44	3.42	. 98953	7.55	6.06	6. 00	.98569	10.80	8. 70	8.57
. 99369	4. 35	3.48	3.46	. 98947	7.60	6.10	6. 04	.98563	10.85	8. 74	8.61
. 99363	4. 40	3.52	3.50	. 98940	7.65	6.14	6. 07	.98557	10.90	8. 78	8.65
. 99356	4. 45	3.56	3.54	. 98934	7.70	6.18	6. 11	.98552	10.95	8. 82	8.69
.99349	4.50	3. 60	3.58	.98928	7.75	6. 2	6.15	.98546	11.00	8.86	8.73
.99342	4.55	3. 64	3.62	.98922	7.80	6. 26	6.19	.98540	11.05	8.90	8.77
.99935	4.60	3. 68	3.66	.98916	7.85	6. 30	6.23	.98535	11.10	8.94	8.81
.99329	4.65	3. 72	3.70	.98909	7.90	6. 34	6.27	.98529	11.15	8.98	8.85
.99322	4.70	3. 76	3.74	.98903	7.95	6. 38	6.31	.98524	11.20	9.02	8.89
.99315	4.75	3.80	3.77	. 98897	8.00	6. 42	6.35	.98518	11. 25	9.07	8. 98
.99308	4.80	3.84	3.81	. 98891	8.05	6. 46	6.39	.98513	11. 30	9.11	8. 97
.99301	4.85	3.88	3.85	. 98885	8.10	6. 50	6.43	.98507	11. 35	9.15	9. 01
.99295	4.90	3.92	3.89	. 98879	8.15	6. 54	6.47	.98502	11. 40	9.19	9. 05
.99288	4.95	3.96	3.93	. 98873	8.20	6. 58	6.51	.98496	11. 45	9.23	9. 09
. 99281	5.00	4.00	3.97	. 98867	8. 25	6. 62	6.55	. 98491	11.50	9.27	9.13
. 99274	5.05	4.04	4.01	. 98861	8. 30	6. 67	6.59	. 98485	11.55	9.31	9.17
. 99268	5.10	4.08	4.05	. 98855	8. 35	6. 71	6.63	. 98479	11.60	9.35	9.21
. 99261	5.15	4.12	4.09	. 98849	8. 40	6. 75	6.67	. 98474	11.65	9.39	9.25
. 99255	5.20	4.16	4.13	. 98843	8. 45	6. 79	6.71	. 98468	11.70	9.43	9.29
. 99248	5. 25	4. 20	4. 17	. 98837	8.50	6.83	6.75	. 98463	11. 75	9, 47	9. 32
. 99241	5. 30	4. 24	4. 21	. 98831	8.55	6.87	6.79	. 98457	11. 80	9, 51	9. 36
. 99235	5. 35	4. 28	4. 25	. 98825	8.60	6.91	6.83	. 98452	11. 85	9, 55	9. 40
. 99228	5. 40	4. 32	4. 29	. 98819	8.65	6.95	6.87	. 98446	11. 90	9, 59	9. 44
. 99222	5. 45	4. 36	4. 33	. 98813	8.70	6.99	6.91	. 98441	11. 95	9, 63	9. 48

935640

Below 50 per cent by volume—Continued.

1						Alcohol.				Alcohol.	
Specific gravity at 600 F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 6%° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at § ? F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.
0. 98435	12.00	9.67	9. 52	0. 98088	15. 25	12. 33	12. 10	0. 97758	18.50	15.02	14. 68
. 98430	12.05	9.71	9. 56	. 98083	15. 30	12. 38	12. 14	. 97758	18.55	15.06	14. 72
. 98424	12.10	9.75	9. 60	. 98078	15. 35	12. 42	12. 18	. 97748	18.60	15.10	14. 76
. 98419	12.15	9.79	9. 64	. 98073	15. 40	12. 46	12. 22	. 97743	18.65	15.14	14. 80
. 98413	12.20	9.83	9. 68	. 98068	15. 45	12. 50	12. 26	. 97738	18.70	15.18	14. 84
.98408	12. 25	9.87	9.72	.98063	15.50	12.54	12.30	.97733	18.75	15. 22	14.88
.98402	12. 30	9.92	9.76	.98057	15.55	12.58	12.34	.97728	18.80	15. 27	14.92
.98397	12. 35	9.96	9.80	.98052	15.60	12.62	12.37	.97723	18.85	15. 31	14.96
.98391	12. 40	10.00	9.84	.98047	15.65	12.66	12.41	.97718	18.90	15. 38	15.00
.98386	12. 45	10.04	9.88	.98042	15.70	12.70	12.45	.97713	18.95	15. 39	15.04
. 98381	12.50	10.08	9. 92	. 98037	15.75	12. 75	12.49	. 97708	19.00	15. 43	15. 08
. 98375	12.50	10.12	9. 96	. 98032	15.80	12. 79	12.53	. 97703	19.05	15. 47	15. 11
. 98370	12.60	10.16	10. 00	. 98026	15.85	12. 83	12.57	. 97698	19.10	15. 51	15. 15
. 98364	12.65	10.20	10. 03	. 98021	15.90	12. 87	12.61	. 97693	19.15	15. 55	15. 19
. 98359	12.70	10.24	10. 07	. 98016	15.95	12. 91	12.65	. 97688	19.20	15. 59	15. 23
. 98353	12.75	10. 28	10.11	. 98011	16.00	12. 95	12. 69	. 97683	19.25	15. 63	15. 27
. 98348	12.80	10. 33	10.15	. 98005	16.05	12. 99	12. 73	. 97678	19.30	15. 68	15. 31
. 98342	12.85	10. 37	10.19	. 98001	16.10	13. 03	12. 77	. 97673	19.35	15. 72	15. 35
. 98337	12.90	10. 41	10.23	. 97996	16.15	13. 08	12. 81	. 97668	19.40	15. 76	15. 39
. 98331	12.95	10. 45	10.27	. 97991	16.20	13. 12	12. 85	. 97663	19.45	15. 80	15. 43
. 98326	13.00	10. 49	10.31	. 97986	16. 25	13.16	12.89	. 97658	19.50	15. 84	15. 47
. 98321	13.05	10. 53	10.35	. 97980	16. 30	13.20	12.93	. 97653	19.55	15. 88	15. 51
. 98315	13.10	10. 57	10.39	. 97975	16. 35	13.24	12.97	. 97648	19.60	15. 93	15. 55
. 98310	13.15	10. 61	10.43	. 97970	16. 40	13.29	13.01	. 97643	19.65	15. 97	15. 59
. 98305	13.20	10. 65	10.47	. 97965	16. 45	13.33	13.05	. 97638	19.70	16. 01	15. 63
. 98299	13. 25	10.69	10. 51	. 97960	16.50	13. 37	13. 09	. 97633	19.75	16. 05	15. 67
. 98294	13. 30	10.74	10. 55	. 97955	16.55	13. 41	13. 13	. 97628	19.80	16. 09	15. 71
. 98289	13. 35	10.78	10. 59	. 97950	16.60	13. 45	13. 17	. 97623	19.85	16. 14	15. 75
. 98283	13. 40	10.82	10. 63	. 97945	16.65	13. 49	13. 21	. 97618	19.90	16. 18	15. 79
. 98278	13. 45	10.86	10. 67	. 97940	16.70	13. 53	13. 25	. 97613	19.95	16. 22	15. 83
. 98273	13.50	10. 90	10, 71	. 97935	16.75	13.57	13. 29	.97608	$\begin{array}{c} 20.00 \\ 20.05 \\ 20.10 \\ 20.15 \\ 20.20 \end{array}$	16. 26	15. 87
. 98267	13.55	10. 94	10, 75	. 97929	16.80	13.62	13. 33	.97603		16. 30	15. 91
. 98262	13.60	10. 98	10, 79	. 97924	16.85	13.66	13. 37	.97598		16. 34	15. 95
. 98256	13.65	11. 02	10, 83	. 97919	16.90	13.70	13. 41	.97593		16. 38	15. 99
. 98251	13.70	11. 06	10, 87	. 97914	16.95	13.74	13. 45	.97588		16. 42	16. 03
. 98246	13.75	11. 11	10, 91	.97909	17. 00	13.78	13. 49	. 97583	20. 25	16. 46	16.06
. 98240	13.80	11. 15	10, 95	.97904	17. 05	13.82	13. 53	. 97578	20. 30	16. 51	16.10
. 98235	13.85	11. 19	10, 99	.97899	17. 10	13.86	13. 57	. 97573	20. 35	16. 58	16.14
. 98230	13.90	11. 23	11, 03	.97894	17. 15	13.90	13. 61	. 97568	20. 40	16. 59	16.18
. 98224	13.95	11, 27	11, 07	.97889	17. 20	13.94	13. 65	. 97563	20. 45	16. 63	16.22
. 98219	14.00	11.31	11.11	. 97884	17. 25	13. 98	13. 69	. 97558	20. 50	16. 67	16. 26
. 98214	14.05	11.35	11.15	. 97879	17. 30	14. 03	13. 73	. 97552	20. 55	16. 71	16. 30
. 98209	14.10	11.39	11.19	. 97874	17. 35	14. 07	13. 77	. 97547	20. 60	16. 75	16. 34
. 98203	14.15	11.43	11.23	. 97869	17. 40	14. 11	13. 81	. 97542	20. 65	16. 80	16. 38
. 98198	14.20	11.47	11.27	. 97864	17. 45	14. 15	13. 85	. 97537	20. 70	16. 84	16. 42
. 98193	14. 25	11.52	11.31	. 97859	17.50	14. 19	13. 89	. 97532	20. 75	16. 88	16. 46
. 98188	14. 30	11.56	11.35	. 97853	17.55	14. 23	13. 92	. 97527	20. 80	16. 92	16. 50
. 98182	14. 35	11.60	11.39	. 97848	17.60	14. 27	13. 96	. 97522	20. 85	16. 96	16. 54
. 98177	14. 40	11.64	11.43	. 97843	17.65	14. 31	14. 00	. 97517	20. 90	17. 01	16. 58
. 98172	14. 45	11.68	11.47	. 97838	17.70	14. 35	14. 04	. 97512	20. 95	17. 05	16. 62
. 98167	14.50	11.72	11. 51	. 97833	17. 75	14.40	14. 08	. 97507	$\begin{array}{c} 21.00 \\ 21.05 \\ 21.10 \\ 21.15 \\ 21.20 \end{array}$	17. 09	16.66
. 98161	14.55	11.76	11. 55	. 97828	17. 80	14.44	14. 12	. 97502		17. 13	16.70
. 98156	14.60	11.80	11. 59	. 97823	17. 85	14.48	14. 16	. 97497		17. 17	16.74
. 98151	14.65	11.84	11. 63	. 97818	17. 90	14.52	14. 20	. 97492		17. 22	16.78
. 98146	14.70	11.88	11. 67	. 97813	17. 95	14.56	14. 24	. 97487		17. 26	16.82
. 98140	14.75	11. 93	11.71	. 97808	18.00	14.60	24. 28	. 97482	21. 25	17.30	16. 86
. 98135	14.80	11. 97	11.75	. 97803	18.05	14.64	14. 32	. 97477	21. 30	17.34	16. 90
. 98130	14.85	12. 01	11.79	. 97798	18.10	14.68	14. 36	. 97472	21. 35	17.38	16. 94
. 98425	14.90	12. 05	11.82	. 97793	18.15	14.73	14. 40	. 97467	21. 40	17.43	16. 98
. 98119	14.95	12. 09	11.86	. 97788	18.20	14.77	14. 44	. 97462	21. 45	17.47	17. 02
. 98114	15.00	12. 13	11. 90	. 97783	18. 25	14. 81	14. 48	. 97457	21.50	17. 51	17. 06
. 98108	15.05	12. 17	11. 94	. 97778	18. 30	14. 85	14. 52	. 97451	21.55	17. 55	17. 10
. 98104	15.10	12. 21	11. 98	. 97773	18. 35	14. 89	14. 56	. 97446	21.60	17. 59	17. 14
. 98099	15.15	12. 25	12. 02	. 97768	18. 40	14. 94	14. 60	. 97441	21.65	17. 63	17. 18
. 98093	15.20	12. 29	12. 06	. 97763	18. 45	14. 98	14. 64	. 97436	21.70	17. 67	17. 22

4

Below 50 per cent by volume—Continued.

		Alcohol				Alcohol.				Alcohol.	
Specific gravity at §%° F.	Per cent by volume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 60° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at \$8° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.
0. 97431	21.75	17. 71	17. 26	0. 97097	25. 00	20. 43	19.84	0. 96744	28, 25	23. 17	22. 42
. 97426	21.80	17. 76	17. 30	. 97092	25. 05	20. 47	19.88	. 96738	28, 30	23. 21	22. 45
. 97421	21.85	17. 80	17. 34	. 97086	25. 10	20. 51	19.92	. 96732	28, 35	23. 25	22. 49
. 97416	21.90	17. 84	17. 38	. 97081	25. 15	20. 56	19.96	. 96726	28, 40	23. 30	22. 53
. 97411	21.95	17. 88	17. 42	. 97076	25. 20	20. 60	20.00	. 96721	28, 45	23. 34	22. 57
. 97406	22. 00	17. 92	17. 46	. 97071	25. 25	20. 64	20. 04	. 96715	28. 50	23. 38	22. 61
. 97401	22. 05	17. 96	17. 50	. 97065	25. 30	20. 68	20. 08	. 96709	28. 55	23. 42	22. 65
. 97396	22. 10	18. 00	17. 54	. 97060	25. 35	20. 72	20. 12	. 96704	28. 60	23. 47	22. 69
. 97391	22. 15	18. 05	17. 58	. 97055	25. 40	20. 77	20. 16	. 96698	28. 65	23. 51	22. 73
. 97386	22. 20	18. 09	17. 62	. 97049	25. 45	20. 81	20. 20	. 96692	28. 70	23. 55	22. 77
. 97381	22. 25	18. 13	17.66	. 97044	25, 50	20.85	20. 24	. 96687	28.75	23. 60	22, 81
. 97375	22. 30	18. 17	17.70	. 97039	25, 55	20.89	20. 28	. 96681	28.80	23. 64	22, 85
. 97370	22. 35	18. 21	17.74	. 97033	25, 60	20.93	20. 32	. 96675	28.85	23. 68	22, 89
. 97365	22. 40	18. 26	17.78	. 97028	25, 65	20.98	20. 36	. 96669	28.90	23. 72	22, 93
. 97360	22. 45	18. 30	17.82	. 97023	25, 70	21.02	20. 40	. 96664	28.95	23. 77	22, 97
. 97355	22. 50	18.34	17. 86	. 97018	25, 75	21.06	20, 44	. 96658	29. 00	23. 81	23. 01
. 97350	22. 55	18.38	17. 90	. 97012	25, 80	21.10	20, 47	. 96652	29. 05	23. 85	23. 05
. 97345	22. 60	18.42	17. 94	. 97007	25, 85	21.14	20, 51	. 96646	29. 10	23. 89	23. 09
. 97340	22. 65	18.47	17. 98	. 97001	25, 90	21.19	20, 55	. 96640	29. 15	23. 94	23. 13
. 97335	22. 70	18.51	18. 02	. 96996	25, 95	21.23	20, 59	. 96635	29. 20	23. 98	23. 17
. 97330	22. 75	18, 55	18.06	. 96991	26. 00	21. 27	20. 63	. 96629	29. 25	24, 02	23. 21
. 97324	22. 80	18, 59	18.10	. 96986	26. 05	21. 31	20. 67	. 96623	29. 30	24, 06	23. 25
. 97319	22. 85	18, 63	18.14	. 96980	26. 10	21. 35	20. 71	. 96617	29. 35	24, 10	23. 29
. 97314	22. 90	18, 68	18.18	. 96975	26. 15	21. 40	20. 75	. 96611	29. 40	24, 15	23. 33
. 97309	22. 95	18, 72	18.22	. 96969	26. 20	21. 44	20. 79	. 96605	29. 45	24, 19	23. 37
. 97304	23. 00	18.76	18. 26	. 96964	26, 25	21.48	20, 83	. 96600	29, 50	24. 23	23. 41
. 97299	23. 05	18.80	18. 29	. 96959	26, 30	21.52	20, 87	. 96594	29, 55	24. 27	23. 45
. 97294	23. 10	18.84	18. 33	. 96953	26, 35	21.56	20, 91	. 96587	29, 60	24. 32	23. 49
. 97289	23. 15	18.88	18. 37	. 96949	26, 40	21.61	20, 95	. 96582	29, 65	24. 36	23. 53
. 97283	23. 20	18.92	18. 41	. 96942	26, 45	21.65	20, 99	. 96576	29, 70	24. 40	23. 57
. 97278	23. 25	18. 96	18. 45	. 96937	26. 50	21.69	21. 03	. 96570	29. 75	24. 45	23, 61
. 97273	23. 30	19. 01	18. 49	. 96932	26. 55	21.73	21. 07	. 96564	29. 80	24. 49	23, 65
. 97268	23. 35	19. 05	18. 53	. 96926	26. 60	21.77	21. 11	. 96559	29. 85	24. 53	23, 69
. 97263	23. 40	19. 09	18. 57	. 96921	26. 65	21.82	21. 15	. 96553	29. 90	24. 57	23, 73
. 97258	23. 45	19. 13	18. 61	. 96915	26. 70	21.86	21. 19	. 96547	29. 95	24. 62	23, 77
. 97253	23. 50	19. 17	18.65	. 96910	26. 75	21. 90	21. 23	. 96541	30.00	24. 66	23, 81
. 97247	23. 55	19. 21	18.69	. 96905	26. 80	21. 94	21. 27	. 96535	30.05	24. 70	23, 85
. 97242	23. 60	19. 25	18.73	. 96899	26. 85	21. 98	21. 31	. 96529	30.10	24. 74	23, 89
. 97237	23. 65	19. 30	18.77	. 96894	26. 90	22. 03	21. 35	. 96523	30.15	24. 79	23, 93
. 97232	23. 70	19. 34	18.81	. 96888	26. 95	22. 07	21. 39	. 96517	30.20	24. 83	23, 97
. 97227	23, 75	19. 38	18.84	. 96883	27. 00	22. 11	21. 43	. 96511	30. 25	24.87	24. 01
. 97222	23, 80	19. 42	18.88	. 96877	27. 05	22. 15	21. 47	. 96505	30. 30	24.91	24. 04
. 97216	23, 85	19. 46	18.92	. 96872	27. 10	22. 20	21. 51	. 96499	30. 35	24.95	24. 08
. 97211	23, 90	19. 51	18.96	. 96866	27. 15	22. 24	21. 55	. 96493	30. 40	25.00	24. 12
. 97206	23, 95	19. 55	19.00	. 96861	27. 20	22. 28	21. 59	. 96487	30. 45	25.04	24. 16
. 97201	24.00	19. 59	19.04	. 96855	27. 25	22, 33	21.63	. 96181	30. 50	25. 08	24. 20
. 97196	24.05	19. 63	19.08	. 96850	27. 30	22, 37	21.67	. 96475	30. 55	25. 12	24. 24
. 97191	24.10	19. 67	19.12	. 96844	27. 35	22, 41	21.71	. 96469	30. 60	25. 17	24. 28
. 97185	24.15	19. 72	19.16	. 96839	27. 40	22, 45	21.75	. 96463	30. 65	25. 21	24. 32
. 97180	24.20	19. 76	19.20	. 96833	27. 45	22, 50	21.79	. 96457	30. 70	25. 25	24. 36
. 97175	24, 25	19.80	19. 24	. 96828	27.50	22, 54	21.83	. 96451	30.75	25. 30	24. 40
. 97170	24, 30	19.84	19. 28	. 96822	27.55	22, 58	21.86	. 96445	30.80	25. 34	24. 44
. 97165	24, 35	19.88	19. 32	. 96816	27.60	22, 62	21.90	. 96439	30.85	25. 38	24. 48
. 97159	24, 40	19.93	19. 36	. 96811	27.65	22, 67	21.94	. 96433	30.90	25. 42	24. 52
. 97154	24, 45	19.97	19. 40	. 96805	27.70	22, 71	21.98	. 96427	30.95	25. 47	24. 56
.97149	24.50	20. 01	19. 44	. 96800	27. 75	22. 75	22. 02	. 96421	31. 00	25. 51	24. 60
.97144	24.55	20. 05	19. 48	. 96794	27. 80	22. 79	22. 06	. 96415	31. 05	25. 55	24. 64
.97139	24.60	20. 09	19. 52	. 96789	27. 85	22. 83	22. 10	. 96409	31. 10	25. 60	24. 68
.97133	24.65	20. 14	19. 56	. 96783	27. 90	22. 88	22. 14	. 96403	31. 15	25. 64	24. 72
.97128	24.70	20. 18	19. 60	. 96778	27. 95	22. 92	22. 18	. 96396	31. 20	25. 68	24. 76
. 97123	24.75	20. 22	19. 64	. 96772	28. 00	22, 96	22, 22	. 96390	31. 25	25, 73	24. 80
. 97118	24.80	20. 26	19. 68	. 96766	28. 05	23, 00	22, 26	. 96384	31. 30	25, 77	24. 84
. 97113	24.85	20. 30	19. 72	. 96761	28. 10	23, 04	22, 30	. 96378	31. 35	25, 81	24. 88
. 97107	24.90	20. 35	19. 76	. 96755	28. 15	23, 09	22, 34	. 96372	31. 40	25, 85	24. 92
. 97102	24.95	20. 39	19. 80	. 96749	28. 20	23, 13	22, 38	. 96366	31. 45	25, 90	24. 96

Below 50 per cent by volume—Continued.

		Alcohol.				Alcohol.				Alcohol.	
Specific gravity at \$80 F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 88° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 50° F.	Per cent. by vol- ume.	Per cent by weight.	Grams per 100 cc.
0. 96360	31.50	25. 94	25. 00	0. 95943	34.75	28.74	27. 58	0. 95487	38.00	31.58	30. 16
. 96353	31.55	25. 98	25. 04	. 95937	34.80	28.78	27. 62	. 95480	38.05	31.63	30. 20
. 96347	31.60	26. 03	25. 08	. 95930	34.85	28.83	27. 66	. 95472	38.10	31.67	30. 24
. 96341	31.65	26. 07	25. 12	. 95923	34.90	28.87	27. 70	. 95465	38.15	31.72	30. 28
. 96335	31.70	26. 11	25. 16	. 95917	34.95	28.92	27. 74	. 95457	38.20	31.76	30. 32
. 96329	31. 75	26. 16	25, 20	.95910	35. 00	28. 96	27. 78	. 95450	38. 25	31.81	30.36
. 96323	31. 80	26. 20	25, 24	.95903	35. 05	29. 00	27. 82	. 95442	38. 30	31.85	30.40
. 96316	31. 85	26. 24	25, 28	.95896	35. 10	29. 05	27. 86	. 95435	38. 35	31.90	30.44
. 96310	31. 90	26. 28	25, 32	.95889	35. 15	29. 09	27. 90	. 95427	38. 40	31.94	30.48
. 96304	31. 95	26. 33	25, 36	.95883	35. 20	29. 13	27. 94	. 95420	38. 45	31.99	30.52
.96298	32. 00	26. 37	25. 40	.95876	35, 25	29. 18	27. 98	. 95413	38.50	32. 03	30.56
.96292	32. 05	26. 41	25. 44	.95869	35, 30	29. 22	28. 02	. 95405	38.55	32. 07	30.60
.96285	32. 10	26. 46	25. 48	.95862	35, 35	29. 26	28. 05	. 95398	38.60	32. 12	30.64
.96279	32. 15	26. 50	25. 52	.95855	35, 40	29. 30	28. 09	. 95390	38.65	32. 16	30.68
.96273	32. 20	26. 54	25. 56	.95848	35, 45	29. 35	28. 13	. 95383	38.70	32. 20	30.72
.96267	32 25	26. 59	25. 60	.95842	35, 50	29. 30	28. 17	. 95375	38.75	32. 25	30.76
.96260	32, 30	26. 63	25. 64	.95835	35, 55	29. 43	28. 21	. 95368	38.80	32. 29	30.79
.96254	32, 35	26. 67	25. 68	.95828	35, 60	29. 48	28. 25	. 95360	38.85	32. 33	30.83
.96248	32, 40	26. 71	25. 71	.95821	35, 65	29. 52	28. 29	. 95353	38.90	32. 37	30.87
.96241	32, 45	26. 76	25. 75	.95814	35, 70	29. 57	28. 33	. 95345	38.95	32. 42	30.91
.96235	32.50	26. 80	25. 79	.95807	35, 75	29. 61	28. 37	. 95338	39.00	32. 46	30. 95
.96229	32.55	26. 84	25. 83	.95800	35, 80	29. 65	28. 41	. 95330	39.05	32. 50	30. 99
.96222	32.60	26. 89	25. 87	.95794	35, 85	29. 70	28. 45	. 95323	39.10	32. 55	31. 03
.96216	32.65	26. 93	25. 91	.95787	35, 90	29. 74	28. 49	. 95315	39.15	32. 59	31. 07
.96210	32.70	26. 97	25. 95	.95780	35, 95	29. 79	28. 53	. 95307	39.20	32. 64	31. 11
.96204	32, 75	27. 02	25. 99	.95773	36.00	29. 83	28, 57	. 95300	39. 25	32. 68	31.14
.96197	32, 80	27: 06	26. 03	.95766	36.05	29. 87	28, 61	. 95292	39. 30	32. 72	31.18
.96191	32, 85	27. 10	26. 07	.95759	36.10	29. 92	28, 65	. 95284	39. 35	32. 77	31.22
.96185	32, 90	27. 14	26. 11	.95752	36.15	29. 96	28, 69	. 95277	39. 40	32. 81	31.26
.96178	32, 95	27. 19	26. 15	.95745	36.20	30. 00	28, 73	. 95269	39. 45	32. 86	31.30
.96172	33, 00	27. 23	26. 19	.95738	36. 25	30. 05	28, 77	. 95262	39. 50	32.90	31.34
.96166	33, 05	27. 27	26. 23	.95731	36. 30	30. 09	28, 81	. 95254	39. 55	32.95	31.38
.96159	33, 10	27. 32	26. 27	.95724	36. 35	30. 13	28, 84	. 95246	39. 60	32.99	31.42
.96153	33, 15	27. 36	26. 31	.95717	36. 40	30. 17	28, 88	. 95239	39. 65	33.04	31.46
.96146	33, 20	27. 40	26. 35	.95710	36. 45	30. 22	28, 92	. 95231	39. 70	33.08	31.50
.96140	33, 25	27. 45	26. 39	. 95703	36.50	30. 26	28.96	.95223	39.75	33. 13	31.54
.96133	33, 30	27. 49	26. 43	. 95695	36.55	30. 30	29.00	.95216	39.80	33. 17	31.58
.96127	33, 35	27. 53	26. 47	. 95688	36.60	30. 35	29.04	.95208	39.85	33. 22	31.62
.96120	33, 40	27. 57	26. 51	. 95681	36.65	30. 39	29.08	.95200	39.90	33. 27	31.66
.96114	33, 45	27. 62	26. 55	. 95674	36.70	30. 44	29.12	.95193	39.95	33. 31	31.70
.96108	33. 50	27. 66	26. 59	. 95667	36.75	30. 48	29, 16	. 95185	40.00	33.35	31.74
.96101	33. 55	27. 70	26. 63	. 95660	36.80	30. 52	29, 20	. 95177	40.05	33.39	31.78
.96095	33. 60	27. 75	26. 67	. 95653	36.85	30. 57	29, 24	. 95169	40.10	33.44	31.82
.96088	33. 65	27. 79	26. 71	. 95646	36.90	30. 61	29, 29	. 95161	40.15	33.48	31.86
.96082	33. 70	27. 83	26. 75	. 95639	36.95	30. 66	29, 32	. 95154	40.20	33.53	31.90
.96075	33, 75	27.88	26, 79	. 95632	37. 00	30.70	29. 36	.95146	40. 25	33. 57	31.94
.96069	33, 80	27.92	26, 82	. 95625	37. 05	30.74	29. 40	.95138	40. 30	33. 61	31.98
.96062	33, 85	27.96	26, 86	. 95618	37. 10	30.79	29. 44	.95130	40. 35	33. 66	32.02
.96056	33, 90	28.00	26, 90	. 95610	37. 15	30.83	29. 48	.95122	40. 40	33. 70	32.06
.96049	33, 95	28.05	26, 94	. 95603	37. 20	30.88	29. 52	.95114	40. 45	33. 75	32.10
.96043	34. 00	28. 09	26. 98	. 95596	37. 25	30, 92	29, 56	.95107	40.50	33. 79	32.14
.96036	34. 05	28. 13	27. 02	. 95589	37. 30	30, 96	29, 60	.95099	40.55	33. 84	32.18
.96030	34. 10	28. 18	27. 06	. 95581	37. 35	31, 01	29, 64	.95091	40.60	33. 88	32.22
.96023	34. 15	28. 22	27. 10	. 95574	37. 40	31, 05	29, 68	.95083	40.65	33. 93	32.26
.96016	34. 20	28. 26	27. 14	. 95567	37. 45	31, 10	29, 72	.95075	40.70	33. 97	32.30
.96010	34. 25	28, 31	27. 18	. 95560	37.50	31. 14	29. 76	. 95067	40.75	34. 02	32.34
.96003	34. 30	28, 35	27. 22	. 95552	37.55	31. 18	29. 80	. 95059	40.80	34. 06	32.38
.95996	34. 35	28, 39	27. 26	. 95545	37.60	31. 23	29. 84	. 95052	40.85	34. 11	32.42
.95990	34. 40	28, 43	27. 30	. 95538	37.65	31. 27	29. 88	. 95044	40.90	34. 15	32.46
.95983	34. 45	28, 48	27. 34	. 95531	37.70	31. 32	29. 92	. 95036	40.95	34. 20	32.50
.95977	34. 50	28. 52	27. 38	.95523	37.75	31. 36	29. 96	.95028	41.00	34. 24	32.54
.95970	34. 55	28. 56	27. 42	.95516	37.80	31. 40	30. 00	.95020	41.05	34. 28	32.58
.95963	34. 60	28. 61	27. 46	.95509	37.85	31. 45	30. 04	.95012	41.10	34. 33	32.62
.95957	34. 65	28. 65	27. 50	.95502	37.90	31. 49	30. 08	.95004	41.15	34. 37	32.66
.95950	34. 70	28. 70	27. 54	.95494	37.95	31. 54	30. 12	.94996	41.20	34. 42	32.70

Below 50 per cent by volume—Continued.

		Alcohol				Alcohol.				Alcohol.	
Specific gravity at 6%° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 500 F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.	Specific gravity at 50° F.	Per cent by vol- ume.	Per cent by weight.	Grams per 100 cc.
0. 94988	41. 25	34. 46	32.74	0. 94493	44. 25	37.16	35. 11	0. 93962	47. 25	39, 90	37. 49
. 94980	41. 30	34. 50	32.78	. 94484	44. 30	37.21	35. 15	. 93953	47. 30	39, 95	37. 53
. 94972	41. 35	34. 55	32.82	. 94476	44. 35	37.25	35. 19	. 93944	47. 35	39, 99	37. 57
. 94964	41. 40	34. 59	32.86	. 94467	44. 40	37.30	35. 23	. 93934	47. 40	40, 04	37. 61
. 94956	41. 45	34. 64	32.90	. 94459	44. 45	37.34	35. 27	. 93925	47. 45	40, 08	37. 65
.94948 .94940 .94932 .94924 .94916	$\begin{array}{c} 41.50 \\ 41.55 \\ 41.60 \\ 41.65 \\ 41.70 \end{array}$	34.68 34.73 34.77 34.82 34.86	32, 93 32, 97 33, 01 33, 05 33, 09	. 94450 . 94441 . 94433 . 94424 . 94416	44.50 44.55 44.60 44.65 44.70	37. 39 37. 44 37. 48 37. 53 37. 57	35, 31 35, 35 35, 39 35, 43 35, 47	. 93916 . 93906 . 93898 . 93888 . 93879	47.50 47.55 47.60 47.65 47.70	40.13 40.18 40.22 40.27 40.32	37.69 37.73 37.77 37.81 37.85
. 94908	41.75	34. 91	33.13	. 94407	44.75	37. 62	35.51	. 93870	47. 75	40. 37	37. 89
. 94900	41.80	34. 95	33.17	. 94398	44.80	37. 66	35.55	. 93861	47. 80	40. 41	37. 93
. 94892	41.85	35. 00	33.21	. 94390	44.85	37. 71	35.59	. 93852	47. 85	40. 46	37. 97
. 94884	41.90	35. 04	33.25	. 94381	44.90	37. 76	35.63	. 93842	47. 90	40. 51	38. 01
. 94876	41.95	35. 09	33.29	. 94373	44.95	37. 80	35.67	. 93833	47. 95	40. 55	38. 05
. 94868	42.00	35. 13	33. 33	. 94364	45.00	37. 84	35.71	. 93824	48. 00	40.60	38. 09
. 94860	42.05	35. 18	33. 37	. 94355	45.05	37. 89	35.75	. 93815	48. 05	40.65	38. 13
. 94852	42.10	35. 22	33. 41	. 94346	45.10	37. 93	35.79	. 93805	48. 10	40.69	38. 17
. 94843	42.15	35. 27	33. 45	. 94338	45.15	37. 98	35.83	. 93796	48. 15	40.74	38. 21
. 94835	42.20	35. 31	33. 49	. 94329	45.20	38. 02	35.87	. 93786	48. 20	40.78	38. 25
. 94827	42. 25	35.36	33. 53	. 94320	45. 25	38. 07	35. 91	. 93777	48. 25	40.83	38. 29
. 94810	42. 30	35.40	33. 57	. 94311	45. 30	38. 12	35. 95	. 93768	48. 30	40.88	38. 33
. 94811	42. 35	35.45	33. 61	. 94302	45. 35	38. 16	35. 99	. 93758	48. 35	40.92	38. 37
. 94802	42. 40	35.49	33. 65	. 94294	45. 40	38. 21	36. 03	. 93749	48. 40	40.97	38. 41
. 94794	42. 45	35.54	33. 69	. 94285	45. 45	38. 25	36. 07	. 93739	48. 45	41.01	38. 45
. 94786 . 94778 . 94770 . 94761 . 94753	$\begin{array}{c} 42.50 \\ 42.55 \\ 42.60 \\ 42.65 \\ 42.70 \end{array}$	35, 58 35, 63 35, 67 35, 72 35, 76	33.73 33.77 33.81 33.85 33.89	. 94276 . 94267 . 94258 . 94250 . 94241	45.50 45.55 45.60 45.65 45.70	38.30 38.35 38.39 38.44 38.48	36. 11 36. 15 36. 19 36. 23 36. 26	.93730 .93721 .93711 .93702 .93692	48.50 48.55 48.60 48.65 48.70	41. 06 41. 11 41. 15 41. 20 41. 24	38, 49 38, 53 38, 57 38, 61 38, 65
. 94745	42.75	35, 81	33. 93	. 94232	45. 75	38.53	36. 30	. 93683	48.75	41. 29	38. 68
. 94737	42.80	35, 85	33. 97	. 94223	45. 80	38.57	36. 34	. 93679	48.80	41. 34	38. 72
. 94729	42.85	35, 90	34. 00	. 94214	45. 85	38.62	36. 38	. 93664	48.85	41. 38	38. 76
. 94720	42.90	35, 94	34. 04	. 94206	45. 90	38.66	36. 42	. 93655	48.90	41. 43	38. 80
. 94712	42.95	35, 99	34. 08	. 94197	45. 95	38.71	36. 46	. 93645	48.95	41. 47	38. 84
. 94704	43.00	36.03	34. 12	. 94188	46. 00	38.75	36.50	. 93636	49. 00	41.52	38. 88
. 94696	43.05	36.08	34. 16	. 94179	46. 05	38.80	36.54	. 93626	49. 05	41.57	38. 92
. 94687	43.10	36.12	34. 20	. 94170	46. 10	38.84	36.58	. 93617	49. 10	41.61	38. 96
. 94679	43.15	36.17	34. 24	. 94161	46. 15	38.89	36.62	. 93607	49. 15	41.66	39. 00
. 94670	43.20	36.21	34. 28	. 94152	46. 20	38.93	36.66	. 93598	49. 20	41.71	39. 04
. 94662	43. 25	36. 23	34. 32	. 94143	46.25	38. 98	36. 70	. 93588	49. 25	41.76	39. 08
. 94654	43. 30	36. 30	34. 36	. 94134	46.30	39. 03	36. 74	. 93578	49. 30	41.80	39. 12
. 94645	43. 35	36. 35	34. 40	. 94125	46.35	39. 07	36. 78	. 93569	49. 35	41.85	39. 16
. 94637	43. 40	36. 39	34. 44	. 94116	46.40	39. 12	36. 82	. 93559	49. 40	41.90	39. 20
. 94628	43. 45	36. 44	34. 48	. 94107	46.45	39. 16	36. 86	. 93550	49. 45	41.94	39. 24
.94620	43.50	36.48	34, 52	. 94098	46.50	39, 21	36. 90	. 93540	49.50	41. 99	39.28
.94612	43.55	36.53	34, 56	. 94089	46.55	39, 26	36. 94	. 93530	49.55	42. 04	39.32
.94603	43.60	36.57	34, 60	. 94080	46.60	39, 30	36. 98	. 93521	49.60	42. 08	39.36
.94595	43.65	36.62	34, 64	. 94071	46.65	39, 35	37. 02	. 93511	49.65	42. 13	39.40
.94586	43.70	36.66	34, 68	. 94062	46.70	39, 39	37. 06	. 93502	49.70	42. 18	39.44
. 94578	43.75	36. 71	34.72	. 94053	46.75	39. 44	37. 09	. 93492	49. 75	42. 23	39.48
. 94570	43.80	36. 75	34.76	. 94044	46.80	39. 49	37. 13	. 93482	49. 80	42. 27	39.52
. 94561	43.85	36. 80	34.80	. 94035	46.85	39. 53	37. 17	. 93473	49. 85	42. 32	39.56
. 94553	43.90	36. 84	34.84	. 94026	46.90	39. 58	37. 21	. 93463	49. 90	42. 37	39.60
. 94544	43.95	36. 89	34.88	. 94017	46.95	39. 62	37. 25	. 93454	49. 95	42. 41	39.63
. 94536 . 94527 . 94519 . 94510 . 94502	44.00 44.05 44.10 44.15 44.20	36. 98 36. 98 37. 02 37. 07 37. 11	34, 91 34, 95 34, 99 35, 03 35, 07	. 94008 . 93999 . 93990 . 93980 . 93971	47.00 47.05 47.10 47.15 47.20	39. 67 39. 72 39. 76 39. 81 39. 85	37. 29 37. 33 37. 37 37. 41 37. 45	. 93443	50,00	42,47	

Specific gravity at 60° F.	Per cent by volume.	Per cent by weight.	Specific gravity at	Per cent by volume.	Per cent by weight.	Specific gravity at	Per cent by volume.	Per cent by weight.
0. 9343	50.00	42. 52	0. 9278	53. 25	45. 61	0. 9213	56. 38	48. 61
. 9342	50.05	42. 57	. 9277	53. 30	45. 65	. 9212	56. 43	48. 65
. 9341	50.10	42. 61	. 9276	53. 35	45. 70	. 9211	56. 48	48. 70
. 9340	50.15	42. 66	. 9275	53. 40	45. 75	. 9210	56. 52	48. 74
. 9339	50.20	42. 71	. 9274	53. 45	45. 80	. 9209	56. 57	48. 79
. 9838	50. 25	42. 76	. 9273	53. 50	45. 84	. 9208	56. 62	48. 84
. 9337	50. 30	42. 80	. 9272	53. 55	45. 89	. 9207	56. 67	48. 88
. 9336	50. 35	42. 85	. 9271	53. 60	45. 94	. 9206	56. 71	48. 93
. 9335	50. 40	42. 90	. 9270	53. 65	45. 99	. 9205	56. 76	48. 98
. 9334	50. 45	42. 95	. 9269	53. 70	46. 03	. 9204	56. 81	49. 02
. 9333	50, 50	42, 99	. 9268	53.75	46. 08	. 9203	56, 86	49. 07
. 9332	50, 55	43, 04	. 9267	53.80	46. 13	. 9202	56, 90	49. 11
. 9331	50, 60	43, 09	. 9266	53.85	46. 18	. 9201	56, 95	49. 16
. 9330	50, 65	43, 14	. 9265	53.90	46. 22	. 9200	57, 00	49. 21
. 9329	50, 70	43, 18	. 9264	53.95	46. 27	. 9199	57, 05	49. 26
. 9328	50. 75	43. 23	. 9263	54. 00	46. 32	. 9198	57. 09	49. 30
. 9327	50. 80	43. 28	. 9262	54. 05	46. 36	. 9197	57. 14	49. 35
. 9326	50. 85	43. 33	. 9261	54. 10	46. 41	. 9196	57. 18	49. 39
. 9325	50. 90	43. 37	. 9260	54. 14	46. 45	. 9195	57. 23	49. 44
. 9324	50. 95	43. 42	. 9259	54. 19	46. 50	. 9194	57. 27	49. 48
. 9323	51. 00	43. 47	. 9258	54. 24	46.55	. 9193	57. 32	49. 53
. 9322	51. 05	43. 52	. 9257	54. 29	46.59	. 9192	57. 36	49. 57
. 9321	51. 10	43. 56	. 9256	54. 33	46.64	. 9191	57. 41	49. 62
. 9320	51. 15	43. 61	. 9255	54. 38	46.69	. 9190	57. 45	49. 66
. 9319	51. 20	43. 66	. 9254	54. 43	46.73	. 9189	57. 50	49. 71
. 9318	51. 25	43. 71	. 9253	54. 48	46. 78	. 9188	57. 55	49. 75
. 9317	51. 30	43. 75	. 9252	54. 52	46. 82	. 9187	57. 59	49. 80
. 9316	51. 35	43. 80	. 9251	54. 57	46. 87	. 9186	57. 64	49. 84
. 9315	51. 40	43. 85	. 9250	54. 62	46. 92	. 9185	57. 68	49. 89
. 9314	51. 45	43. 90	. 9249	54. 67	46. 96	. 9184	57. 73	49. 94
. 9313	51. 50	43. 94	. 9248	54.71	47. 01	. 9183	57. 77	49. 98
. 9312	51. 55	43. 99	. 9247	54.76	47. 06	. 9182	57. 82	50. 03
. 9311	51. 60	44. 04	. 9246	54.81	47. 10	. 9181	57. 86	50. 07
. 9310	51. 65	44. 09	. 9245	54.86	47. 15	. 9180	57. 91	50. 12
. 9309	51. 70	44. 13	. 9244	54.90	47. 19	. 9179	57. 95	50. 16
. 9308	51. 75	44. 18	. 9243	54. 95	47. 24	. 9178	58, 00	50. 21
. 9307	51. 80	44. 23	. 9242	55. 00	47. 29	. 9177	58, 05	50. 25
. 9306	51. 85	44. 28	. 9241	55. 05	47. 33	. 9176	58, 09	50. 30
. 9305	51. 90	44. 32	. 9240	55. 10	47. 38	. 9175	58, 14	50. 34
. 9304	51. 95	44. 37	. 9239	55. 14	47. 42	. 9174	58, 18	50. 39
. 9303	52. 00	44. 42	. 9238	55, 19	47. 47	.9173	58. 23	50. 43
. 9302	52. 05	44. 46	. 9237	55, 24	47. 51	.9172	58. 27	50. 48
. 9301	52. 10	44. 51	. 9236	55, 29	47. 56	.9171	58. 32	50. 52
. 9360	52. 15	44. 56	. 9235	55, 33	47. 60	.9170	58. 36	50. 57
. 9299	52. 20	44. 61	. 9234	55, 38	47. 65	.9169	58. 41	50. 61
. 9298	52, 25	44. 65	. 9233	55, 43	47. 69	. 9168	58, 45	50. 66
. 9297	52, 30	44: 70	. 9232	55, 48	47. 74	. 9167	58, 50	50. 70
. 9296	52, 35	44. 75	. 9231	55, 52	47. 78	. 9166	58, 55	50. 75
. 9295	52, 40	44. 79	. 9230	55, 57	47. 83	. 9165	58, 59	50. 79
. 9294	52, 45	44. 84	. 9229	55, 62	47. 87	. 9164	58, 64	50. 84
. 9293	52. 50	44. 89	. 9228	55. 67	47. 92	. 9163	58, 68	50. 88
. 9292	52. 55	44. 93	. 9227	55. 71	47. 96	. 9162	58, 73	50. 93
. 9291	52. 60	44. 98	. 9226	55. 76	48. 01	. 9161	58, 77	50. 97
. 9290	52. 65	45. 03	. 9225	55. 81	48. 05	. 9160	58, 82	51. 02
. 9289	52. 70	45. 08	. 9224	55. 86	48. 10	. 9159	58, 86	51. 06
. 9288	52. 75	45. 12	. 9223	55. 90	48. 14	. 9158	58. 91	51, 11
. 9287	52. 80	45. 17	. 9222	55. 95	48. 19	. 9157	58. 95	51, 15
. 9286	52. 85	45. 22	. 9221	56. 00	48. 24	. 9156	59. 00	51, 20
. 9285	52. 90	45. 26	. 9220	56. 05	48. 28	. 9155	59. 05	51, 25
. 9284	52. 95	45. 31	. 9219	56. 10	48. 33	. 9154	59. 09	51, 29
.9283	53. 00	45, 36	. 9218	56. 14	48. 37	. 9153	59. 14	51. 34
.9282	53. 05	45, 42	. 9217	56. 19	48. 42	. 9152	59. 18	51. 38
.9281	53. 10	45, 46	. 9216	56. 24	48. 47	. 9151	59. 23	51. 43
.9280	53. 15	45, 51	. 9215	56. 29	48. 51	. 9150	59. 27	51. 47
.9279	53. 20	45, 56	. 9214	56. 33	48. 56	. 9149	59. 32	51. 52

Above 50 per cent by volume—Continued.

Specific gravity at	Per cent by volume.	Per cent by weight.	Specific gravity at §%° F.	Per cent by volume.	Per cent by weight.	Specific gravity at 60° F.	Per cent by volume.	Per cent by weight.
0. 9148	59. 36	51, 56	0. 9083	62, 30	54. 52	0. 9018	65. 12	57. 37
. 9147	59. 41	51, 61	. 9082	62, 35	54. 56	. 9017	65. 17	57. 42
. 9146	59. 45	51, 65	. 9081	62, 39	54. 60	. 9016	65. 21	57. 46
. 9145	59. 50	51, 70	. 9080	62, 43	54. 65	. 9015	65. 25	57. 50
. 9144	59. 55	51, 75	. 9079	62, 48	54. 69	. 9014	65. 29	57. 54
. 9143	59. 59	51. 79	.9078	62.52	54. 74	. 9013	65. 33	57. 59
. 9142	59. 64	51. 84	.9077	62.57	54. 78	. 9012	65. 37	57. 63
. 9141	59. 68	51. 88	.9076	62.61	54. 82	. 9011	65. 42	57. 67
. 9140	59. 73	51. 93	.9075	62.65	54. 87	. 9010	65. 46	57. 72
. 9139	59. 77	51. 97	.9074	62.70	54. 91	. 9009	65. 50	57. 76
. 9138	59, 82	52. 02	. 9073	62. 74	54. 95	. 9008	65. 54	57. 80
9137	59, 86	52. 06	. 9072	62. 78	55. 00	. 9007	65. 58	57. 85
. 9136	59, 91	52. 11	. 9071	62. 83	55. 04	. 9006	65. 62	57. 89
. 9135	59, 95	52. 15	. 9070	62. 87	55. 08	. 9005	65. 67	57. 93
. 9134	60, 00	52. 20	. 9069	62. 91	55. 13	. 9004	65. 71	57. 97
. 9133	60. 05	52. 24	.9068	62, 96	55. 17	. 9003	65. 75	58. 02
. 9132	60. 09	52. 29	.9067	63, 00	55. 21	. 9002	65. 79	58. 06
. 9131	60. 14	52. 33	.9066	63, 04	55. 26	. 9001	65. 83	58. 10
. 9130	60. 18	52. 38	.9065	63, 09	55. 30	. 9000	65. 87	58. 15
. 9129	60. 23	52. 43	.9064	63, 13	55. 35	. 8999	65. 92	58. 19
. 9128	60. 27	52. 47	. 9063	63. 17	55. 39	. 8998	65. 96	58. 23
. 9127	60. 32	52. 52	. 9062	63. 22	55. 43	. 8997	66. 00	58. 27
. 9126	60. 36	52. 56	. 9061	63. 26	54. 48	. 8996	66. 04	58. 32
. 9125	60. 41	52. 61	. 9060	63. 30	55. 52	. 8995	66. 08	58. 36
. 9124	60. 45	52. 66	. 9059	63. 35	55. 57	. 8994	66. 12	58. 41
. 9123	60. 50	52. 70	. 9058	63, 39	55. 61	. 8993	66. 17	58. 45
. 9122	60. 55	52. 75	. 9057	63, 43	55. 65	. 8992	66. 21	58. 49
. 9121	60. 59	52. 79	. 9056	63, 48	55. 70	. 8991	66. 25	58. 54
. 9120	60. 64	52. 84	. 9055	63, 52	55. 74	. 8990	66. 29	58. 58
. 9119	60. 68	52. 88	. 9054	63, 57	55. 78	. 8989	66. 33	58. 62
.9118	60. 73	52. 93	. 9053	63, 61	55. 83	. 8988	66. 37	58. 67
.9117	60. 77	52. 98	. 9052	63, 65	55. 87	. 8987	66. 42	58. 71
.9116	60. 82	53. 02	. 9051	63, 70	55. 92	. 8986	66. 46	58. 76
.9115	60. 86	53. 07	. 9050	63, 74	55. 96	. 8985	66. 50	58. 80
.9114	60. 91	53. 11	. 9049	63, 78	56. 00	. 8984	66. 54	58. 84
. 9113	60, 95	53. 16	. 9048	63, 83	56. 05	. 8983	66. 58	58. 89
. 9112	61, 00	53. 20	. 9047	63, 87	56. 09	. 8982	66. 62	58. 93
. 9111	61, 05	53. 24	. 9046	63, 91	56. 14	. 8981	66. 67	58. 97
. 9110	61, 09	53. 29	. 9045	63, 96	56. 18	. 8980	66. 71	59. 02
. 9109	61, 14	53. 33	. 9044	64, 00	56, 22	. 8979	66. 75	59. 06
. 9108	61. 18	53, 38	. 9043	64. 04	56. 27	. 8978	66. 79	59.11
. 9107	61. 23	53, 43	. 9042	64. 09	56. 31	. 8977	66. 83	59.15
. 9106	61. 27	53, 47	. 9041	64. 13	56. 36	. 8976	66. 87	59.19
. 9105	61. 32	53, 52	. 9040	64. 17	56. 40	. 8975	66. 92	59.24
. 9104	61. 36	53, 56	. 9039	64. 22	56, 45	. 8974	66. 96	59.28
. 9103	61.41	53. 61	.9038	64. 26	56. 49	. 8973	67.00	59.32
. 9102	61.45	53. 65	.9037	64. 30	56. 53	. 8972	67.04	59.37
. 9101	61.50	53. 70	.9036	64. 35	56. 58	. 8971	67.08	59.41
. 9100	61.55	53. 75	.9035	64. 39	56. 62	. 8970	67.12	59.46
. 9099	61.59	53. 79	.9034	64. 43	56. 67	. 8969	67.17	59.50
. 9098	61. 64	53, 84	. 9053	64, 48	56.71	. 8968	67. 21	59.55
. 9097	61. 68	53, 88	. 9032	64, 52	56.76	. 8967	67. 25	59.59
. 9096	61. 73	53, 93	. 9031	64, 57	56.80	. 8966	67. 29	59.63
. 9095	61. 77	53, 98	. 9030	64, 61	56.85	. 8965	67. 33	59.68
. 9094	61. 82	54, 02	. 9029	64, 65	56.89	. 8964	67. 37	59.72
. 9093	61. 86	54. 07	. 9028	64.70	56. 93	. 8963	67. 42	59. 77
. 9092	61. 91	54. 11	. 9027	64.74	56. 98	. 8962	67. 46	59. 81
. 9091	61. 95	54. 16	. 9026	64.78	57. 02	. 8961	67. 50	59. 85
. 9090	62. 00	54. 21	. 9025	64.83	57. 07	. 8960	67. 54	59. 90
. 9089	62. 04	54. 26	. 9024	64.87	57. 11	. 8959	67. 58	59. 94
.9088	62. 09	54. 30	. 9023	64. 91	57. 16	. 8958	67.62	59. 99
.9087	62. 13	54. 34	. 9022	64. 96	57. 20	. 8957	67.67	60. 03
.9086	62. 17	54. 39	. 9021	65. 00	57. 24	. 8956	67.71	60. 08
.9085	62. 22	54. 43	. 9020	65. 04	57. 29	. 8955	67.75	60. 12
.9084	62. 26	54. 47	. 9019	65. 08	57. 33	. 8954	67.79	60. 16

Above 50 per cent by volume—Continued.

			,					
Specific gravity at	Per cent by volume.	Per cent by weight.	Specific gravity at & 60° F.	Per cent by volume.	Per cent by weight.	Specific gravity at	Per cent by volume.	Per cent by, weight.
0.8958	67. 83	60. 21	0, 8888	70. 48	63. 02	0. 8823	73. 08	65. 83
.8952	67. 87	60. 25	. 8887	70. 52	63. 06	. 8822	73. 12	65. 87
.8951	67. 92	60. 30	. 8886	70. 56	63. 11	. 8821	73. 15	65. 91
.8950	67. 96	60. 34	. 8885	70. 60	63. 15	. 8820	73. 19	65. 95
.8949	68. 00	60. 38	. 8884	70. 64	63. 19	. 8819	73. 23	65. 99
. 8948	68. 04	60, 43	. 8883	70. 68	63. 24	. 8818	73. 27	66. 04
. 8947	68. 08	60, 47	. 8882	70. 72	63. 28	. 8817	73. 31	66. 08
. 8946	68. 12	60, 52	. 8881	70. 76	63. 32	. 8816	73. 35	66. 12
. 8945	68. 17	60, 56	. 8880	70. 80	63. 37	. 8815	73. 38	66. 16
. 8944	68. 21	60, 61	. 8879	70. 84	63. 41	. 8814	73. 42	66. 20
. 8943	68, 25	60. 65	. \$878	70. 88	63. 45	. 8813	73. 46	66. 25
. 8942	68, 29	60. 69	. 8877	70. 92	63. 50	. 8812	73. 50	66. 29
. 8941	68, 33	60. 74	. 8876	70. 96	63. 54	. 8811	73. 54	66. 33
. 8940	68, 37	60. 78	. 8875	71. 00	63. 58	. 8810	73. 58	66. 37
. 8939	68, 42	60. 83	. 8874	71. 04	63. 63	. 8809	73. 62	66. 41
. 8938	68, 46	60. 87	. 8873	71. 08	63. 67	. 8808	73, 65	66. 46
. 8937	68, 50	60. 91	. 8872	71. 12	63. 71	. 8807	73, 69	66. 50
. 8936	68, 54	60. 96	. 8871	71. 16	63. 76	. 8806	73, 73	66. 54
. 8935	68, 58	61. 00	. 8870	71. 20	63. 80	. 8805	73, 77	66. 58
. 8934	68, 62	61. 05	. 8869	71. 24	63. 84	. 8804	73, 81	66. 62
. 8933	68. 67	61. 09	. 8868	71. 28	63. 89	. 8803	73. 85	66, 67
. 8932	68. 71	61. 14	. 8867	71. 32	63. 93	. 8802	73. 88	66, 71
. 8931	68. 75	61. 18	. 8866	71. 36	63. 97	. 8801	73. 92	66, 75
. 8930	68. 79	61. 22	. 8865	71. 40	64. 02	. 8800	73. 96	66, 79
. 8929	68. 83	61. 27	. 8864	71. 44	64. 06	. 8799	74. 00	66, 83
. 8928	68. 87	61. 31	. 8863	71. 48	64. 10	. 8798	74. 04	66, 87
. 8927	68. 92	61. 36	. 8862	71. 52	64. 14	. 8797	74. 08	66, 92
. 8926	68. 96	61. 40	. 8861	71. 56	64. 19	. 8796	74. 12	66, 96
. 8925	69. 00	61. 44	. 8860	71. 60	64. 23	. 8795	74. 15	67, 00
. 8924	69. 04	61. 48	. 8859	71. 64	64. 27	. 8794	74. 19	67, 04
. 8923	69. 08	61, 53	. 8858	71. 68	64. 32	. 8793	74. 23	67. 09
. 8922	69. 12	61, 57	. 8857	71. 72	64. 36	. 8792	74. 27	67. 13
. 8921	69. 16	61, 61	. 8856	71. 76	64. 40	. 8791	74. 31	67. 17
. 8920	69. 20	61, 65	. 8855	71. 80	64. 45	. 8790	74. 35	67. 21
. 8919	69. 24	61, 70	. 8854	71. 84	64. 49	. 8789	74. 38	67. 26
.8918	69. 28	61.74	. 8853	71. 88	64. 53	.8788	74. 42	67. 30
.8917	69. 32	61.78	. 8852	71. 92	64. 58	.8787	74. 46	67. 34
.8916	69. 36	61.82	. 8851	71. 96	64. 62	.8786	74. 50	67. 38
.8915	69. 40	61.87	. 8850	72. 00	64. 66	.8785	74. 54	67. 42
.8914	69. 44	61.91	. 8849	72. 04	64. 71	.8784	74. 58	67. 47
.8913	69.48	61. 95	. 8848	72. 08	64.75	. 8783	74.62	67. 51
.8912	69.52	61. 99	. 8847	72. 12	64.79	. 8782	74.65	67. 55
.8911	69.56	62. 04	. 8846	72. 16	64.84	. 8781	74.69	67. 59
.8910	69.60	62. 08	. 8845	72. 20	64.88	. 8780	74.73	67. 64
.8909	69.64	62. 12	. 8844	72. 24	64.92	. 8779	74.77	67. 68
. 8908	69. 68	62. 16	. 8843	72. 28	64. 97	. 8778	74. 81	67. 72
. 8907	69. 72	62. 21	. 8842	72. 32	65. 01	. 8777	74. 85	67. 76
. 8906	69. 76	62. 25	. 8841	72. 36	65. 05	. 8776	74. 88	67. 81
. 8905	69. 80	62. 29	. 8840	72. 40	65. 10	. 8775	74. 92	67. 85
. 8904	69. 84	62. 33	. 8339	72. 44	65. 14	. 8774	74. 96	67. 89
. 8903	69. 88	62. 38	. 8838	72. 48	65, 18	. 8773	75. 00	67. 93
. 8902	69. 92	62. 42	. 8837	72. 52	65, 22	. 8772	75. 04	67. 98
. 8901	69. 96	62. 46	. 8836	72. 56	65, 27	. 8771	75. 08	68. 02
. 8900	70. 00	62. 50	. 8835	72. 60	65, 31	. 8770	75. 12	68. 06
. 8839	70. 04	62. 55	. 8834	72. 64	65, 35	. 8769	75. 15	68. 11
. 8898	70. 08	62, 59	. 8833	72. 68	65. 40	. 8768	75. 19	68. 15
. 8897	70. 12	62, 63	. 8832	72. 72	65. 44	. 8767	75. 23	68. 19
. 8896	70. 16	62, 68	. 8831	72. 76	65. 48	. 8766	75. 27	68. 23
. 8895	70. 20	62, 72	. 8830	72. 80	65. 53	. 8765	75. 31	68. 28
. 8894	70. 24	62, 76	. 8829	72. 84	65. 57	. 8764	75. 35	68. 32
.8893	70. 28	62. 81	. 8828	72, 88	65. 61	. 8763	75.38	68. 36
.8892	70. 32	62. 85	. 8827	72, 92	65. 66	. 8762	75.42	68. 41
.8891	70. 36	62. 89	. 8826	72, 96	65. 70	. 8761	75.46	68. 45
.8890	70. 40	62. 94	. 8825	73, 00	65. 74	. 8760	75.50	68. 49
.8889	70. 44	62. 98	. 8824	73, 04	65. 78	. 8759	75.54	68. 54
	gravity at \$\frac{80}{89}\$ F. 0. 8953 . 8952 . 8951 . 8950 . 8949 . 8948 . 8947 . 8946 . 8948 . 8949 . 8948 . 8949 . 8949 . 8948 . 8949 . 8949 . 8949 . 8938 . 8937 . 8936 . 8938 . 8937 . 8938 . 8937 . 8938 . 8938 . 8937 . 8938 . 8932 . 8938 . 8932 . 8931 . 8930 . 8929 . 8928 . 8927 . 8928 . 8929 . 8928 . 8927 . 8928 . 8929 . 8921 . 8923 . 8921 . 8923 . 8911 . 8911 . 8913 . 8917 . 8918 . 8917 . 8918 . 8917 . 8918 . 8917 . 8919 . 8918 . 8917 . 8919 . 8908 . 8907 . 8909 . 8908 . 8907 . 8908 . 8907 . 8908 . 8909 . 8896 . 8897 . 8896 . 8897 . 8899 . 8898 . 8899 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8898 . 8899 . 8899 . 8898 . 8899 . 8899 . 8898 . 8899 . 8899 . 8898 . 8899 . 8899 . 8898 . 8899 . 8899 . 8898 . 8899 . 8899 . 8898 . 8899 . 8899 . 8898 . 8899 . 8898	gràvity at by volume. 0. 8953 67. 83 67. 87 8952 67. 89 68. 90 88 89 97 69. 24 8890 69. 92 8891 69. 92 8891 69. 96 68. 88 89 68. 89 68. 89 68. 89 68. 89 68. 89 68. 89 69. 28 8991 69. 24 8891 69. 36 88 89 69. 28 8901 69. 60 8899 69. 60 88 89 69. 28 8901 69. 60 8899 69. 20 8891 69. 36 88 89 69. 28 8901 69. 60 88 8902 69. 90 8899 69. 20 8891 69. 36 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 890 69. 60 88 88 8890 69. 60 88 88 8890 69. 60 88 88 8890 70. 00 88 8890 70. 00 88 8890 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 24 88 8891 70. 26 88 89	gràvity at 80 by weight. 0.8953 67.83 60.21 8.952 67.87 60.25 8.951 67.92 60.30 8.950 67.96 60.34 8.949 68.00 60.38 8.947 68.08 60.47 60.56 8.944 68.21 60.61 8.944 68.21 60.61 8.944 68.21 60.61 8.944 68.21 60.61 8.944 68.33 60.74 8.940 68.37 60.78 8.939 68.42 60.83 8.939 68.42 60.83 8.939 68.42 60.83 8.939 68.42 60.83 8.935 68.56 60.91 8.935 68.56 60.91 8.935 68.56 60.91 8.935 68.58 61.00 8.934 68.62 61.05 8.934 68.62 61.05 8.934 68.62 61.05 8.934 68.62 61.05 8.932 68.71 61.14 8.931 68.75 61.18 8.930 68.79 61.22 8.929 68.83 61.27 8.929 68.83 61.27 8.929 68.83 61.27 8.929 68.83 61.27 8.929 68.83 61.40 8.925 69.00 61.44 8.924 69.04 61.48 8.924 69.04 61.48 8.924 69.04 61.48 8.924 69.04 61.48 8.925 69.00 61.40 8.925 69.20 61.65 8.919 69.24 61.70 8.911 69.36 61.61 61.87 8.911 69.36 61.82 8.912 69.36 61.82 8.915 69.40 61.87 8.911 69.36 62.26 8.900 69.46 62.21 8.900 69.46 62.21 8.900 69.90 62.28 8.901 69.66 62.26 8.900 62.28 8.900 69.46 62.21 8.900 69.46 62.25 8.900 69.62 62.25 8.900 69.80 62.29 8.900 62.28 8.900 69.64 62.21 8.900 69.64 62.22 8.900 69.64 62.22 8.900 69.66 62.25 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.66 62.26 8.900 69.80 62.29 8.900 69.66 62.25 8.900 69.80 62.29 8.900 69.66 62.25 8.900 69.66 62.25 8.900 69.80 62.29 8.900 69.80 62.29 8.900 69.80 62.29 8.900 69.80 62.29 8.900 69.80 62.29 8.900 69.66 62.25 8.900 69.80 62.29 8.900 69.80 62.29 8.900 62.50 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.50 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.55 8.890 70.00 62.50 8.890 70.00 62.55 8.890 70.	gràvity at 68° F. volume. by weight. gràvity at 68° F. 0.8953 67.87 60.25 .8887 8951 67.92 60.30 .8886 8856 8950 67.96 60.34 8885 8894 68.06 60.88 .8884 8884 68.04 60.43 .8885 8947 68.08 60.47 8882 8946 68.12 60.52 .8881 8946 68.12 60.56 8889 8944 68.21 60.61 8879 8877 8941 68.33 60.74 8876 8876 8949 68.37 60.78 8877 8894 68.37 60.78 8874 8893 68.42 60.88 8874 8893 68.42 60.88 8874 8893 68.56 60.91 8877 8893 68.56 60.91 8877 8893 68.56 60.91 8877 8893 68.56 60.91 8872 8938 68.56 60.91 8872 8938 68.56 60.91 8872 8938 68.56 60.91 8872 8938 68.57 60.78 8869 8893 68.57 61.09 8869 8874 8893 68.57 61.18 8866 8893 68.77 61.18 8866 8893 68.77 61.18 8866 8893 68.77 61.18 8866 8893 68.79 61.22 8865 8929 68.83 61.27 8864 8892 68.99 61.44 8867 8892 68.99 61.44 8867 8892 68.99 61.26 61.36 8862 8929 68.83 61.27 8864 8892 69.04 61.48 8862 8927 68.92 61.36 8862 8929 68.83 61.27 8864 8892 69.04 61.48 8862 8929 68.83 61.27 8864 8892 69.04 61.48 8862 8921 69.04 61.48 8862 8921 69.04 61.48 8859 8922 69.12 61.57 8857 8857 8891 69.24 61.70 8854 8891 69.36 61.57 8857 8859 8922 69.12 61.57 8857 8859 8916 69.36 61.57 8857 8859 8922 69.12 61.57 8857 8859 8916 69.36 61.57 8857 8859 8922 69.12 61.57 8857 8859 8916 69.36 61.57 8857 8859 8922 69.12 61.57 8857 8859 8922 69.12 61.57 8857 8859 8922 69.12 61.57 8859 8859 8922 69.12 61.57 8859 8859 8922 69.12 61.57 8859 8859 8922 69.12 61.57 8859 8859 8922 69.12 61.57 8859 8859 8922 69.12 61.57 8859 8859 8929 69.20 61.65 8855 8859 8929 69.20 61.65 8855 8859 8929 69.20 61.65 8855 8859 8920 69.20 61.65 8855 8859 8920 69.20 61.65 8855 8859 8920 69.20 61.65 8855 8859 8920 69.20 61.65 8855 8859 8859 69.80 62.29 8840 8845 8899 69.64 62.24 8838 8899 8890 69.64 62.24 8838 8838 8899 8890 69.64 62.25 8883 8899 8890 8990 69.24 62.21 8832 8839 8899 70.04 62.25 8831 8899 70.04 62.25 8831 8899 70.04 62.25 8831 8899 70.04 62.25 8831 8899 70.04 62.25 8831 8899 70.04 62.25 8831 8828 8899 70.04 62.25 8831 8828 8899 70.04 62.25 8832 8828 8899 70.04 62.25 8832 8825 8899 70.04 62.24 8825 8825 8899 70.04 62.94 8825	gràvity at 880° F. volume. by weight. gravity at 880° F. volume. 0.8953 67.83 60.21 0.8888 70.48 8.8951 67.92 60.30 8886 70.56 8.8950 67.96 60.34 8885 70.60 8.8949 68.00 60.38 8884 70.64 8.8947 68.08 60.47 8882 70.72 8.8946 68.12 60.52 8881 70.76 8.8946 68.12 60.56 8880 70.80 8.8947 68.08 60.47 8882 70.72 8.8946 68.17 60.56 8880 70.80 8.8947 68.21 60.61 8879 70.81 8.8942 68.29 60.69 8877 70.92 8.8941 68.33 60.74 8876 70.96 8.8940 68.37 60.78 8875 71.00 8.8938 68.46 60.91 8877 71.04 8.8938 68.46 60.91 8877 71.10 8.8938 68.50 60.91 8872 71.12 8.8936 68.54 60.96 8871 71.16 8.8938 68.56 60.91 8870 71.20 8.8938 68.57 60.69 8871 71.12 8.8938 68.50 60.91 8870 71.20 8.8938 68.50 60.91 8870 71.20 8.8939 68.42 8886 71.28 8.8930 68.75 61.18 8866 71.38 8.8931 68.75 61.18 8866 71.38 8.8930 68.79 61.22 8865 71.40 8.8929 68.89 61.22 8865 71.40 8.8929 68.89 61.27 8864 71.44 8.8929 68.90 61.44 8860 71.60 8.8920 69.90 61.44 8860 71.60 8.8921 69.90 61.44 8860 71.60 8.8922 69.12 61.57 8857 71.72 8.8924 69.04 61.48 8869 71.64 8.8925 69.00 61.44 8860 71.60 8.8921 69.12 61.57 8857 71.72 8.8921 69.12 61.57 8857 71.72 8.8921 69.90 61.44 8860 71.60 8.8921 69.90 61.44 8860 71.60 8.8921 69.90 61.88 8851 71.72 8.8921 69.90 61.88 8851 71.72 8.8921 69.90 61.88 8851 71.72 8.8921 69.90 61.88 8851 71.88 8.8922 69.90 61.88 8851 71.89 8.8923 69.90 61.88 8851 71.89 8.8924 69.90 61.88 8851 71.69 8.8925 69.00 61.44 8860 71.60 8.8921 69.92 61.86 8851 71.72 8.8921 69.92 61.86 8851 71.92 8.8921 69.92 61.88 8851 71.92 8.8921 69.92 61.88 8851 71.92 8.8921 69.92 61.88 8851 72.20 8.8919 69.24 61.70 8854 72.20 8.8919 69.24 61.70 8854 72.20 8.8910 69.94 62.46 8836 72.56 8.8900 69.04 62.21 8843 72.28 8.8910 69.92 82.88 8.8917 70.12 62.63 8831 72.68 8.8918 69.92 82.88 8.8927 70.92 82.88 8.8907 69.92 82.88 8.8907 69.92 82.88 8.8907 69.92 82.88 8.8907 69.92 82.88 8.8907 69.92 82.88 8.8909 70.00 62.98 8830 72.89 8.8900 69.92 82.82 8.8901 69.92 82.82 8.8901 69.92 82.82 8.8901 70.90 82.82 8.8902 70.90 82.82 8.8903 70.80 82.82 8.8903 70.80 82.82 8.8903 70.80 82.82	Practical Research Proceedings Process Process	gravity at by weight. 0.8952 67.83 60.21 0.8888 70.48 63.02 0.8823 8.8962 67.57 60.25 8.8867 70.62 63.06 68.22 8.8961 67.92 60.30 8.8867 70.66 63.11 8.821 8.8960 60.69 60.34 8.8855 70.60 63.15 8.820 8.8949 68.00 60.88 8.8854 70.64 63.19 8.819 8.8947 66.06 60.48 8.8885 70.66 63.11 8.821 8.8947 66.06 60.48 8.8885 70.66 63.12 8.8961 68.12 60.52 8.881 70.72 63.28 8.815 8.8946 68.12 60.52 8.881 70.76 63.22 8.817 8.8946 68.12 60.65 8.880 70.70 66 63.32 8.815 8.8945 68.17 60.66 8.880 70.80 63.37 8.815 8.8945 68.17 60.66 8.8890 70.80 63.37 8.815 8.8942 68.29 60.69 8.8877 70.88 63.45 8.8945 88.894 68.37 60.78 8.8977 70.92 63.50 8.812 8.8941 68.33 60.74 8.8875 70.66 63.45 8.812 8.8941 88.33 60.74 8.8875 70.66 63.54 8.811 8.8940 68.37 60.78 8.8875 70.66 63.54 8.811 8.8940 68.37 60.78 8.8875 71.00 63.58 8.893 8.8942 66.29 60.69 8.8877 70.92 63.50 8.812 8.8945 68.57 60.78 8.8875 71.00 63.58 8.893 8.8945 68.56 60.87 8.8875 71.00 63.58 8.893 8.893 8.8946 68.87 60.88 8.8875 71.00 63.58 8.893 8.893 8.894 68.60 8.80 8.893 8.894 8.893 8.894 8.894 8.893 8.894 8.893 8.894 8.893 8.894 8.894 8.893 8.894 8.893 8.894 8.893 8.893 8.894 8.893 8.893 8.894 8.893	Section Sect

10

Above 50 per cent by volume—Continued.

Specific gravity at	Per cent by volume.	Per cent by weight.	Specific gravity at \$80 F.	Per cent by volume.	Per cent by weight.	Specific gravity at	Per cent by volume.	Per cent by weight.
0. 8758	75. 58	68. 58	0. 8698	77. 81	71. 10	0. 8638	80. 04	73. 63
. 8757	75. 62	68. 62	. 8697	77. 85	71. 14	. 8637	80. 07	73. 67
. 8756	75. 65	68. 67	. 8696	77. 89	71. 19	. 8636	80. 11	73. 71
. 8755	75. 69	68. 71	. 8695	77. 93	71. 28	. 8635	80. 14	73. 76
. 8754	75. 73	68. 75	. 8694	77. 96	71. 27	. 8634	80. 18	73. 80
. 8753	75, 77	68. 79	. 8693	78.00	71. 31	. 8633	80. 21	73. 84
. 8752	75, 81	68. 84	. 8692	78.04	71. 35	. 8632	80. 25	73. 88
. 8751	75, 85	68. 88	. 8691	78.07	71. 40	. 8631	80. 29	73. 92
. 8750	75, 88	68. 92	. 8690	78.11	71. 44	. 8630	80. 32	73. 96
. 8749	75, 92	68. 97	. 8689	78.15	71. 48	. 8629	80. 36	74. 00
. 8748	75, 96	69. 01	. 8688	78. 19	71. 52	. 8628	80. 39	74. 04
. 8747	76, 00	69. 05	. 8687	78. 22	71. 57	. 8627	80. 43	74. 08
. 8746	76, 04	69. 09	. 8686	78. 26	71. 61	. 8626	80. 46	74. 12
. 8745	76, 07	69. 14	. 8685	78. 30	71. 65	. 8625	80. 50	74. 17
. 8744	76, 11	69. 18	. 8684	78. 33	71. 69	. 8624	80. 54	74. 21
. 8743	76. 15	69. 22	. 8683	78. 37	71. 73	. 8623	80. 57	74. 25
. 8742	76. 19	69. 26	. 8682	78. 41	71. 78	. 8622	80. 61	74. 29
. 8741	76. 22	69. 30	. 8681	78. 44	71. 82	. 8621	80. 64	74. 33
. 8740	76. 26	69. 34	. 8680	78. 48	71. 86	. 8620	80. 68	74. 37
. 8739	76. 30	69. 39	. 8679	78. 52	71. 90	. 8619	80. 71	74. 41
. 8738	76. 33	69. 43	. 8678	78. 56	71. 95	. 8618	80. 75	74. 45
. 8737	76. 37	69. 47	. 8677	78. 59	71. 99	. 8617	80. 79	74. 49
. 8736	76. 41	69. 51	. 8676	78. 63	72. 03	. 8616	80. 82	74. 54
. 8735	76. 44	69. 55	. 8675	78. 67	72. 07	. 8615	80. 86	74. 58
. 8734	76. 48	69. 60	. 8674	78. 70	72. 11	. 8614	80. 89	74. 62
. 8733	76. 52	69. 64	. 8673	78. 74	72. 16	. 8613	80, 93	74. 66
. 8732	76. 56	69. 68	. 8672	78. 78	72. 20	. 8612	80, 96	74. 70
. 8731	76. 59	69. 72	. 8671	78. 81	72. 24	. 8611	* 81, 00	74. 74
. 8730	76. 63	69. 76	. 8670	78. 85	72. 28	. 8610	81, 04	74. 78
. 8729	76. 67	69. 81	. 8669	78. 89	72. 38	. 8609	81, 07	74. 83
. 8728	76. 70	69. 85	. 8668	78. 93	72. 37	. 8608	81. 11	74. 87
. 8727	76. 74	69. 89	. 8667	78. 96	72. 41	. 8607	81. 14	74. 91
. 8726	76. 78	69. 93	. 8666	79. 00	72. 45	. 8606	81. 18	74. 95
. 8725	76. 81	69. 97	. 8665	79. 04	72. 49	. 8605	81. 21	74. 99
. 8724	76. 85	70. 01	. 8664	79. 07	72. 54	. 8604	81. 25	75. 03
. 8723	76, 89	70.06	. 8663	79. 11	72.58	. 8603	81. 29	75, 08
. 8722	76, 93	70.10	. 8662	79. 15	72.62	. 8602	81. 32	75, 12
. 8721	76, 96	70.14	. 8661	79. 19	72.66	. 8601	81. 36	75, 16
. 8720	77, 00	70.18	. 8660	79. 22	72.71	. 8600	81. 39	75, 20
. 8719	77, 04	70.22	. 8659	79. 26	72.75	. 8599	81. 43	75, 24
.8718	77. 07	70. 27	. 8658	79. 30	72. 79	. 8598	81. 46	75, 29
.8717	77. 11	70. 31	. 8657	79. 33	72. 83	. 8597	81. 50	75, 33
.8716	77. 15	70. 35	. 8656	79. 37	72. 87	. 8596	81. 54	75, 37
.8715	77. 19	70. 39	. 8655	79. 41	72. 92	. 8595	81. 57	75, 41
.8714	77. 22	70. 43	. 8654	79. 44	72. 96	. 8594	81. 61	75, 45
. 8713	77. 26	70. 47	. 8653	79. 48	73. 00	. 8593	81. 64	75. 49
. 8712	77. 30	70. 52	. 8652	79. 52	73. 04	. 8592	81. 68	75. 54
. 8711	77. 33	70. 56	. 8651	79. 56	73. 09	. 8591	81. 71	75. 58
. 8710	77. 37	70. 60	. 8650	79. 59	73. 13	. 8590	81. 75	75. 62
. 8709	77. 41	70. 64	. 8649	79. 63	73. 17	. 8589	81. 79	75. 66
. 8708	77. 44	70. 68	. 8648	79. 67	73. 21	. 8588	81.82	75. 70
. 8707	77. 48	70. 73	. 8647	79. 70	73. 25	. 8587	81.86	75. 74
. 8706	77. 52	70. 77	. 8646	79. 74	73. 30	. 8586	81.89	75. 79
. 8705	77. 56	70. 81	. 8645	79. 78	73. 34	. 8585	81.93	75. 83
. 8704	77. 59	70. 85	. 8644	79. 81	73. 38	. 8584	81.96	75. 87
. 8703 . 8702 . 8701 . 8700 . 8699	77. 63 77. 67 77. 70 77. 74 77. 78	70. 89 70. 94 70. 98 71. 02 71. 06	. 8643 . 8642 . 8641 . 8640 . 8639	79. 85 79. 89 79. 93 79. 96 80. 00	73. 42 73. 47 73. 51 73. 55 73. 59	. 8583	82.00	75. 91







